

Contents Volume 30

Vol. 30, No. 1 (June 1993)

Publisher's Note	v
G.W. Mbise and R.T. Kivaisi Angular dependent transmittance in multilayer coating	1
N. Özer and F. Tepehan Structure and optical properties of electrochromic copper oxide films prepared by reactive and conventional evaporation techniques	13
D. Dimova-Malinovska, L. Nedialkova and V. Kudoyarova Compositional dependence of the optical properties and the H local bonding in a-Si _{1-x} Ge _x :H ($x < 0.4$) thin films	27
R.L. Mueller Spectral response measurements of two-terminal triple-junction a-Si solar cells	37
K. Mukhopadhyay, S.K. Datta and H. Saha Dependence of efficiency on slat angles of microgrooved solar cells	47
L. Guochang and L. Guohua Theoretical investigation on new materials for raising efficiency of energy conversion in PEC solar cells	61
C.H. Champness and C.H. Chan Photocurrent-capacitance method of diffusion length measurement	65
A. Roos Use of an integrating sphere in solar energy research	77

Vol. 30, No. 2 (July 1993)

J. Muschaweck and W. Spirkl Dynamic solar collector performance testing	95
S.K. Das and G.C. Morris Preparation and properties of CdS/CdTe thin film solar cell produced by periodic pulse electrodeposition technique	107
J.P. Rai Electrosynthesis of zinc selenide and thallium containing zinc selenide thin films and their characterization	119

H.N. Cong, C. Sene and P. Chartier Photovoltaic cell based on cadmium sulfide sprayed film and electrolytic poly(3-methylthiophene): Solvent nature effect	127
D.S. Shen and P.K. Bhat Thin boron doped microcrystalline silicon films	139
V. Sachan and J.D. Meakin Study of phases formed during production of copper indium diselenide by reacting copper, indium and selenium layers	147
H. Gomathi, D.N. Upadhyay and G.P. Rao Photoresponse of indium hexacyanoferrate	161
K. Singh and A.K. Shukla Studies on electrosynthesis and photoresponsiveness of (ZnCd)Se	169
A.N.M. Karim and M.M. Rahman Cost-effective analysis on the suitability of photovoltaic pumping systems in Bangladesh	177
Book Reviews	189
<i>Vol. 30, No. 3 (August 1993)</i>	
P.R. Suresh and M. Satyam Combined effect of aluminium diffusion and annealing on GB properties in cast polysilicon	193
K. Kobayakawa, T. Miura, A. Suzuki, Y. Sato and A. Fujishima Enhancement of the photocatalytic activity of CdS powder for hydrogen evolution from aqueous sulfite solution by heat treatment with KCl	201
C.A.N. Fernando Kinetics of photocurrent generation and quantum efficiency of a resonant energy transfer dye sensitized solid state photovoltaic cell made from p-CuCNS and n-SnO ₂ transparent films on glass	211
J.E. Parrott Radiative recombination and photon recycling in photovoltaic solar cells	221
P. Chaudhuri, A.R. Middya and S. Ray Photogeneration and recombination of carriers in hydrogenated amorphous silicon germanium alloys	233
M. Yamaguchi, K. Ando, H. Okazaki, T. Takamoto and M. Ohmori Proton irradiation effects on InP solar cells fabricated from LEC-grown single crystals	245
T. Maruyama and S. Arai The electrochromic properties of nickel oxide thin films prepared by chemical vapor deposition	257

R.H. Richman, W.P. McNaughton and J.A. Maasberg	
Investigation of high-concentration photovoltaic cell packages after three years field service	263
Rapid Communication	
R. Knödler, J. Sopka, F. Harbach and H.W. Grünling	
Photoelectrochemical cells based on dye sensitized colloidal TiO ₂ layers	277
Call for Papers	283
<i>Vol. 30, No. 4 (September 1993)</i>	
Wan Taixin, Zhao Qinhua and Cheng Xiaoxi	
The preparation process and property analysis of a solar selective absorbing surface on milled steel	285
L. Hernandez, R. Soler and A. Martel	
N ⁺ dopant exponential profiles for silicon solar cells	291
J. Lammasniemi and K. Rakennus	
Effects of annealing on performance of InP solar cells on GaAs substrates	301
G.C. Perreault, S.L. Hyland and D.G. Ast	
High accelerating voltage electron beam induced current (EBIC) of thick and thin solar silicon specimens	309
Z. Crnjak Orel, M.G. Hutchins and G. McMeeking	
The electrochromic properties of hydrated nickel oxide films formed by colloidal and anodic deposition	327
G.C. Morris and R.J. Vanderveen	
Cadmium telluride films prepared by pulsed electrodeposition	339
F. Tepehan and N. Özer	
A simple method for the determination of the optical constants, <i>n</i> and <i>k</i> of cadmium sulfide films from transmittance measurements	353
H.-s. Lin	
Evidence of electron trapping in undoped hydrogenated amorphous silicon (a-Si:H) Schottky barriers by the surface photovoltage (SPV) technique – A study of stability in a-Si:H solar cells	367
Author Index	375
Contents Volume 30	379

